Contents of Volume 15

Number 1

S. A. Gilmore, T. J. Sims, D. L. Davies and **M. Barbaros Durgun**	1	Microglial development is altered in immature spinal cord by exposure to radiation
S. Tanaka and **T. Koike**	15	Veratridine delays apoptotic neuronal death induced by NGF deprivation through a Na^+-dependent mechanism in cultured rat sympathetic neurons
G. A. Ushakova, H. A. Gubkina, V. A. Kachur and **E. A. Lepekhin**	29	Effect of experimental hyperphenylalaninemia on the postnatal rat brain
C. Courage-Maguire, C. L. Bacon, H. Nau and **C. M. Regan**	37	Correlation of *in vitro* anti-proliferative potential with *in vivo* teratogenicity in a series of valproate analogues
E. Hösli and **L. Hösli**	45	Autoradiographic studies on the uptake of ^{3}H-dopamine by neurons and astrocytes in explant and primary cultures of rat CNS: effects of uptake inhibitors
R. R. H. Nuijtinck, R. E. Baker, E. Ter Gast, M. L. Struik and **M. T. Mud**	55	Glutamate dependent dendritic outgrowth in developing neuronal networks of rat hippocampal cells *in vitro*
E. M. Correa-Gillieron and **L. A. Cavalcante**	61	Asynchronous changes in size, number, and shape of synapses in the developing superior colliculus
D. R. Prapurna and **K. S. Rao**	67	DNA polymerases δ and ε in developing and aging rat brain
S. A. Ferguson and **R. R. Holson**	75	Methylazoxymethanol-induced micrencephaly in the Brown Norway strain: behavior and brain weight
R. Lakshmy and **P. Srinivasarao**	87	Effect of thiocyanate on microtubule assembly in rat brain during postnatal development
J. Apelt, R. Schliebs, M. Beck, S. Roßner and **V. Bigl**	95	Expression of amyloid precursor protein mRNA isoforms in rat brain is differentially regulated during postnatal maturation and by cholinergic activity
S. Basu, G. Gupta, G. Chowdhury and **R. G. Mahajan**	113	Novel 29 kDa heparin-binding lectin from human foetal brain
P. Lundgren, L. Johansson, C. Englund, Å. Sellström, and **M.-O. Mattsson**	127	Expression pattern of glutamate decarboxylase (GAD) in the developing cortex of the embryonic chick brain
R. R. J. Shelke, M. K. Lakshmana, Y. Ramamohan and **T. R. Raju**	139	Levels of dopamine and noradrenaline in the developing retina—effect of light deprivation
	145	Announcements

Number 2

G. Wörtwein, B. Gustafson, K. L. Hansen and **J. Mogensen**	147	Behavioral symptoms in adult rats after postnatal L-nitro-arginine
A. Bjerregaard, H. S. Mogensen, N. Hack, R. Balázs and **O. S. Jørgensen**	155	Weaver mutant mouse cerebellar granule cells respond normally to chronic depolarization

P. Saransaari and **S. S. Oja**	163	Enhanced GABA release in cell-damaging conditions in the adult and developing mouse hippocampus
K. Kim, M. Annadata, G. W. Goldstein and **J. P. Bressler**	175	Induction of c-fos mRNA by lead in PC 12 cells
J. C. Deloulme, A. Helies, M. Ledig, M. Lucas and **M. Sensenbrenner**	183	A comparative study of the distribution of α- and γ-enolase subunits in cultured rat neural cells and fibroblasts
A. F. Holloway, F. A. Stennard, K. M. Dziegielewska, L. Weller and **A. K. West**	195	Localisation and expression of metallothionein immuno-reactivity in the developing sheep brain
N. MacLeod, C. Turner and **J. Edgar**	205	Properties of developing lateral geniculate neurones in the mouse
S. Di Loreto and **M. Balestrino**	225	Development of vulnerability to hypotoxic damage in *in vitro* hippocampal neurons
L. A. DeGiorgio, J. J. Bernstein and **J. P. Blass**	231	Implantation of cultured human leptomeningeal cells into rat brain
R. Ary-Pires, M. Nakatani, S. K. Rehen and **R. Linden**	239	Developmentally regulated release of intraretinal neurotrophic factors *in vitro*
J.-C. Chen, G. Turiak, J. Galler and **L. Volicer**	257	Postnatal changes of brain monoamine levels in prenatally malnourished and control rats
	265	Announcements
	1	*Forthcoming papers*

Number 3

S. E. Bartlett and **I. A. Hendry**	267	Identifying the G protein, G_{xn}, and its associated proteins in nervous tissue using mass spectrometry and microsequencing techniques
A. Bäckström, S. Söderström and **T. Ebendal**	275	Cloning of a new chicken trkC extracellular isoform and its mRNA expression in E9 sensory and autonomic ganglia
N. L. Nadon, S. Miller, K. Draeger and **M. Salvaggio**	285	Myelin proteolipid DM20: Evidence for function independent of myelination
J. J. Boyce and **T. B. Shea**	295	Phosphorylation events mediated by protein kinase Cα and ε participate in regulation of tau steady-state levels and generation of certain "Alzheimer-like" phospho-epitopes
M. Giorgi, D. Giordano, C. Caniglia, S. Biagioni and **G. Augusti-Tocco**	309	Induction of cyclic AMP and cyclic GMP 3′:5′-cyclic nucleotide phosphodiesterase activities in neuroblastoma lines under differentiating conditions
K. R. Pennypacker, Y. Xiao, R. H. Xu and **G. J. Harry**	321	Lead-induced developmental changes in AP-1 DNA binding in rat brain
S. A. Sands and **B. M. Chronwall**	329	G-protein expression of melanotropes changes coincident with innervation of the developing rat pituitary intermediate lobe
A. Arabshahi, C. Giaume and **K. D. Peusner**	343	Lack of biocytin transfer at gap junctions in the chicken vestibular nuclei

M. Shochina, A. Belai, L. Toole, G. Knight and **G. Burnstock** 353 Neurochemical coding in the myenteric plexus of the upper gastrointestinal tract of hibernating hamsters

A. M. Corbacho, M. M. Brauer and **T. Pérez** 363 Development and maturation of noradrenaline-containing nerves of the rat uterine artery. Effects of acute and chronic oestrogen treatment

I *Forthcoming papers*

Number 4/5

Special Issue: DEVELOPMENT AND REGENERATION OF THE INNER EAR

H. M. Sobkowicz 373 Development and regeneration of the inner ear—Introduction

H. J. Adler, M. Komeda and **Y. Raphael** 375 Further evidence for supporting cell conversion in the damaged avian basilar papilla

S. Masetto and **M. J. Correia** 387 Ionic currents in regenerating avian vestibular hair cells

M. Müller, J. W. T. Smolders, D. Ding-Pfennigdorff and **R. Klinke** 401 Discharge properties of pigeon single auditory nerve fibers after recovery from severe acoustic trauma

P. S. Steyger, M. Burton, J. R. Hawkins, N. R. Schuff and **R. A. Baird** 417 Calbindin and parvalbumin are early markers of non-mitotically regenerating hair cells in the bullfrog vestibular otolith organs

L. Li and **A. Forge** 433 Morphological evidence for supporting cell to hair cell conversion in the mammalian utricular macula

I. Lopez, V. Honrubia, S. C. Lee, G. Schoeman and **K. Beykirch** 447 Quantification of the process of hair cell loss and recovery in the chinchilla crista ampullaris after gentamicin treatment

H. M. Sobkowicz, B. K. August and **S. M. Slapnick** 463 Cellular interactions as a response to injury in the organ of Corti in culture

M. Lenoir and **P. Vago** 487 Does the organ of Corti attempt to differentiate new hair cells after antibiotic intoxication in rat pups?

S. Chardin and **R. Romand** 497 Factors modulating supernumerary hair cell production in the postnatal rat cochlea *in vitro*

J. A. Kaltenbach and **P. R. Falzarano** 509 The development of the reticular lamina in the hamster: an examination of transitory features and their functional roles

K. F. Barald, K. H. Lindberg, K. Hardiman, A. I. Kavka, J. E. Lewis, J. C. Victor, C. A. Gardner and **A. Poniatowski** 523 Immortalized cell lines from embryonic avian and murine otocysts: tools for molecular studies of the developing inner ear

M. C. Holley, Y. Nishida and **N. Grix** 541 Conditional immortalization of hair cells from the inner ear

H. Staecker, S. Dazert, B. Malgrange, P. P. Lefebvre, A. F. Ryan and **T. R. Van De Water** 553 Transforming growth factor alpha treatment alters intracellular calcium levels in hair cells and protects them from ototoxic damage *in vitro*

B. Fritzsch, P. A. Sarai, M. Barbacid and **I. Silos-Santiago** 563 Mice with a targeted disruption of the neurotrophin receptor *trk*B lose their gustatory ganglion cells early but do develop taste buds

M. A. Weiss, J. C. Frisancho, B. J. Roessler and **Y. Raphael**	577	Viral-mediated gene transfer in the cochlea
T.-W. L. Gong, A. D. Hegeman, J. J. Shin, K. H. Lindberg, K. F. Barald and **M. I. Lomax**	585	Novel genes expressed in the chick otocyst during development: identification using differential display of RNA
S. Dazert, A. Battaglia and **A. F. Ryan**	595	Transfection of neonatal rat cochlear cells *in vitro* with an adenovirus vector
B. E. Lawner, G. W. Harding and **B. A. Bohne**	601	Time course of nerve-fiber regeneration in the noise-damaged mammalian cochlea
C. G. d'Aldin, J. Ruel, R. Assié, R. Pujol and **J.-L. Puel**	619	Implication of NMDA type glutamate receptors in neural regeneration and neoformation of synapses after excitotoxic injury in the guinea pig cochlea
J. M. Miller, D. H. Chi, L. J. O'Keeffe, P. Kruszka, Y. Raphael and **R. A. Altschuler**	631	Neurotrophins can enhance spiral ganglion cell survival after inner hair cell loss
A. M. Meyer Zum Gottesberge and **J. K. Mai**	645	Pre- and postnatal expression of glycoconjugates (3-fucosyl-*N*-acetyllactosamine and HNK-1 epitopes) in the mouse inner ear
D. S. Whitlon and **X. Zhang**	657	Polysialic acid in the cochlea of the developing mouse
L. L. Bruce, J. Kingsley, D. H. Nichols and **B. Fritzsch**	671	The development of vestibulocochlear efferents and cochlear afferents in mice
	693	Erratum

Number 6

M. Bardoul, M. J. Drain and **N. König**	695	AMPA/kainate receptors modulate tthe survival *in vitro* of embryonic brainstem cells
G. Taglialatela, P. J. Foreman and **J. Regino Perez-Polo**	703	Effect of a long-term nerve growth factor treatment on body weight, blood pressure, and serum corticosterone in rats
L. F. Jarskogg, H. Xiao, M. B. Wilkie, J. M. Lauder and **J. H. Gilmore**	711	Cytokine regulation of embryonic rat dopamine and serotonin neuronal survival *in vitro*
P. D. Kitchener, K. M. Dziegielewska, G. W. Knott, J. M. Miller, P. Nawratil, A. E. Potter and **N. R. Saunders**	717	Fetuin expression in the dorsal root ganglia and trigeminal ganglia of perinatal rats
H. Ríos, A. Brusco and **J. Pecci Saavedra**	729	Development of serotoninergic chick retinal neurons
B. Sperlágh, G. Zsilla, M. Baranyi, A. Kékes-Szabó and **E. Sylvester Vizi**	739	Age-dependent changes of presynaptic neuromodulation via A_1-adenosine receptors in rat hippocampal slices
M. P. Nieto-Bona, L. M. Garcia-Segura and **I. Torres-Alemán**	749	Transynaptic modulation by insulin-like growth factor I of dendritic spines in Purkinje cells
B. Berdel, J. Moryś and **B. Maciejewska**	755	Neuronal changes in the basolateral complex during development of the amygdala of the rat

J. L. Daniotti, V. Rosales Fritz, P. Kunda, T. Nishi and **H. J. F. Maccioni** 767 Cloning, characterization and developmental expression of α2,8 sialyltransferase (GD3 synthase, ST8Sia I) gene in chick brain and retina

C. L. Bacon, E. O'Driscoll and **C. M. Regan** 777 Valproic acid suppresses G1 phase-dependent sialylation of a 65 kDa glycoprotein in the C6 glioma cell cycle

P. Matus, S. Cubillos and **L. Lima** 785 Differential effect of taurine and serotonin on the outgrowth from explants or isolated cells of the retina

K. Schlett, B. Herberth and **E. Mandarász** 795 *In vitro* pattern formation during neurogenesis in neuro-ectodermal progenitor cells immortalized by p53-deficiency

S. Pereyra-Alfonso, G. Scicolone, J. L. Ferrán, J. Pecci Saavedra and **V. Flores** 805 Developmental pattern of plasminogen activator activity in chick optic lobe

S. Okoyama and **M. Kudo** 813 Development of the tecto–thalamic projection neurons and the differential expressions of calcium-binding proteins in the rat

I *Forthcoming papers*

Number 7

J. A. Colombo, S. Lipina, A. Yáñez and **V. Puissant** 823 Postnatal development of interlaminar astroglial processes in the cerebral cortex of primates

S. Roßner 835 Cholinergic immunolesions by 192IGG-saporin—a useful tool to simulate pathogenic aspects of Alzheimer's disease

G. Mateu, A. Privat, J. Thibault and **J. Vignon** 851 Comparison of glutamate and *N*-methyl-D-aspartate toxicities on rat mesencephalic primary cell cultures

F. J. Ekinci and **T. B. Shea** 867 Selective activation by bryostatin-1 demonstrates unique roles for PKCε in neurite extension and tau phosphorylation

G. Scicolone, S. Pereyra-Alfonso, V. Sanchez and **V. Flores** 875 Temporal pattern of plasminogen activator activity in the developing chick cerebellum

K. W. S. Ashwell and **J. K. Mai** 883 A transient CD15 immunoreactive sling in the developing mouse cerebellum

K. G. Becker, I. J. Lee, J. W. Nagle, R. D. Canning, A. M. Gado, R. Torres, M. H. Polymeropoulos, P. T. Massa, W. E. Biddison and **P. D. Drew** 891 C2H2-171: a novel human cDNA representing a developmentally regulated POZ domain/zinc finger protein preferentially expressed in brain

F. Cirulli, E. M. Shooter and **S. Levine** 901 Developmental expression of the NGF receptor $p140^{trk}$ in the septohippocampal system of the rat: a quantitative analysis

K. Antoniou, Z. Papadopoulou-Daifotis, K. Kanelakis, D. D. Varonos and **A. Sfikakis** 911 Relationship between the thymus and neurochemical changes in the hypothalamus–preoptic area and prefrontal cortex in female rats with delayed puberty

I *Forthcoming papers*

Number 8

A. Agrawal, L. M. Tripathi and **V. C. Pandey** 921 Amino acid transport in cerebral microvessels during *Plasmodium yoelii* infection in mice

O. Gorbatyuk, M. Landry, P. Emson, I. Akmayev and **T. Hökfelt** 931 Developmental expression of nitric oxide synthase in the rat diencephalon with special reference to the thalamic paratenial nucleus

A. Sahoo and **G. B. N. Chainy** 939 Alterations in the activities of cerebral antioxidant enzymes of rat are related to aging

E. Hösli, U. Otten and **L. Hösli** 949 Expression of $GABA_A$ receptors by reactive astrocytes in explant and primary cultures of rat CNS

D. R. Brown, B. Schmidt and **H. A. Kretzschmar** 961 Effects of oxidative stress on prion protein expression in PC12 cells

G. Calvaruso, E. Gerbino, M. Lauricella and **G. Tesoriere** 973 The effects of TGF-β_1 on chick embryo retina development *in vitro*

M. Hashimoto and **G. Heinrich** 983 Brain-derived neurotrophic factor gene expression in the developing zebrafish

I *Forthcoming papers*